BRUHATH BENGALURU MAHANAGARA PALIKE

Yelahanka Division, Yelahanka Zone

Executive Engineeer
Yelahanka Division
B.B.M.P. Bengaluru - 64

No:EE/YNK-D/E-PMT/12/2022-23 Dated: 26-08-2022

MODIFIED APPROVED TENDER SCHEDULE –'B'

Item 02

Name of Work:-Drilling of borewells in kempegowda ward No-01 of yelahanka Sub division

Sl	Description	Unit	Approved Qty	Rate quoted by the contractor approved rates Sri Rajesh A (R R ENGINEERING WORKS	
				Rate	Rate in Words
1	Geophysical investigation at site for sinking borewells for supplying drinking water to the habitation either through the Hand Pump MWS or P.W.S.S, by vertical electrical sounding by adopting Venner orSchlumbergers's method, including reconnaissance survey of geological formation. Geophysical investigation of existing ground water in the vicinity, its quality, quantity and acceptability of the users, indicating the location of the site, recommended depth of casing pipe required to seal the top unconsolidated formation including an extra depth of 1.0 metre in consolidated formation for proper seating of casing pipe, depth of drilling required to cover full depth of aquifer proposed to be tapped, probable yield and other information required including transportation of instruments and accessories to work site, engaging technical personal and labour required etc. NOTE: 1) Additional rate on item 1&2 is allowed for drilling in over burden and fixing Casing pipes beyond 20 M (for fixing Casing pipes only) a) Above 20 M and upto 30 M - 15%, b) Above 30 M - 30%	Nos	2.00	4693.73	Four Thousand Six Hundred NinetyThree Paise SeventyThree Only
2	Sinking of Borewell of 165mm dia clear using super fast hydraulic rig of capacity 300 PSIG & above 1100 CMF & above in all strata including over burdern upto 20 m. Fixing of casing pipes, collars and cap with necessary cutting, threading and welding including transportation of rig and supporting vehicle, crew charges and cost of consumables etc., complete including yield testing at the final depth with a minimum working of compressor for one hour (Excluding cost of casing pipes, collars, cap etc., complete) 0 to 50 m	M	100.00	264.77	Two Hundred SixtyFour Paise SeventySeven Only
3	50 to 100 m	M	100.00	332.33	Three Hundred ThirtyTwo Paise ThirtyThree Only
4	100 to 150 m	M	100.00	353.33	Three Hundred FiftyThree Paise ThirtyThree Only
5	150 to 200 m	M	100.00	409.94	Four Hundred Nine Paise NinetyFour Only

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6	200 to 250 m	M	100.00	481.15	Four Hundred EightyOne Paise Fifteen Only
7	250 to 300 m	M	100.00	509.45	Five Hundred Nine Paise FourtyFive Only
8	Supply of ISI mark 175mm nominal bore,plain and steel casing pipe grade of steel Fe 410 of wall thickness conforming to IS 4270-2001 and latest ammendments, electrical resistance welded steel tubes, material and conforming to IS 1387-1993 and manufactured by basic open hearth electric or basic oxygen process in random length of 5-7m both ends.threaded conforming to IS 554-1985 one end fixed with socket conforming to IS 4270-2001 and the other end with screwed pipes all shall be responsibaly free from defects. The tubes shall be responsible straight end should be with ISI marking weighing 25.10kg/m.prices include Collar-Medium duty	RMtr	90.00	1764.83	One Thousand Seven Hundred SixtyFour Paise EightyThree Only
9	Supply and delivery of galvanized mild steel tubes of 6mtr standard length heavy duty (C Class) as per IS 1239 (Part-I) 1990 with latest amendments with ISI Mark (one end fitted with Heavy Duty collar and other end fitted with protective cover) 50 mm	Each	48.00	2784.65	Two Thousand Seven Hundred EightyFour Paise SixtyFive Only
10	PVC pipe - OD 250mm and 6 Kg/sqcm	Rmtr	12.00	1004.30	One Thousand Four Paise Thirty Only
11	Supplying and drawing 3 core flat PVC sheathed submersible pump cable manufactured with electrolytic grade copper withflexible copper with low resistance conductor confirming to13:8130-1984 and virgin grade PVC insulation and powdercoating extruded PVC sheathed suitable for working voltageupto 1100 V as per IS-694:2010. 3C x 6 mm2	Mtrs	562.50	200.86	Two Hundred Paise EightySix Only
			17.50	200.86	Two Hundred Paise EightySix Only
12	Fabricating Supplying and Mounting MS Box Made out 14 SWG Suitable For Floor/ Wall Mounting Fully Weather Proof With Provision For Better Heat Dissipation, Provided With Hinged Front Cover, Equipped With Tamper Proof Locking Arrangements, With Suitable Size Clamps With Necessary Cable Entry Pipe With Gland and Box Should be Finished With 2 Coats Of red Oxide Primer Paint And Finally Finished With Approved Colour Enameled Metal Pain Etc, Complete, PWD Electrical SR-19-20 , Page No:30, Item No:5.42.1 ie., 1200 X850X2=2040000, 850X350X2=595000, (350+450)/2=400, 400X1200=480000 =480000X2=960000, 3595000 /100=35950SQCM X0.40=14380	Mtrs	4.04	11935.40	Eleven Thousand Nine Hundred ThirtyFive Paise Fourty Only

Sl	Description	Unit	Approved Qty	Rate quoted by the contractor approved rates Sri Rajesh A (R R ENGINEERING WORKS	
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13	Providing,supplying to work site, Submersible Pump Set of 150mm dia suitable for bore well and confirming to IS 8034-2000;3Phase, SS Bowl & Impeller with Low volt Motor as per specifications,as per necessary ammendments and instructions of engineer incharge of work. 15.00 HP - 120 LPM @ 266 m = 23 STG Outlet Dia - 2.00"	Nos	1.00	63232.55	SixtyThree Thousand Two Hundred ThirtyTwo Paise FiftyFive Only
14	Earthing: Supplying and fixing and wiring earth electrode for grounding circuits IC cutouts and other equipments on the meter board in the pit. The pits should be filled up with equal proportion of salt and charcoal 150mm around the pipe to complete depth. The connection from the pipe to the conduits etc. is to established through GI wire of sizes as per clause 7.3.3 of IS 732 using 12mm bolts, nuts, washers and check nuts, the pipe shall have 16 through holes of 12mm dia.	Job	1.00	3423.75	Three Thousand Four Hundred TwentyThree Paise SeventyFive Only
15	Supply and fixing polished wood board made of not lessthan 15mm thick plank on both sides of not more than 2pieces and fixing the same to the wall using tapered invertedwooden plugs screws. 20" x 20" x 2.5"	Each	1.00	261.45	Two Hundred SixtyOne Paise FourtyFive Only
16	Supplying & fixing of Porcelain fuse channel with cut out onexisting wooden/panel using necessary nuts, bolts andwashers. 63 A	Each	1.00	308.76	Three Hundred Eight Paise SeventySix Only
17	Supplying & fixing miniature circuit breakers on existing MCB distribution boards using necessary fixing materialsand 'C' Type curve, indicator ON/OFF, energy cross-3 withShort circuit breaking capacity of 10K and complete wiring asrequired confirming to IEC 60898. 50-63	Each	1.00	1991.17	One Thousand Nine Hundred NinetyOne Paise Seventeen Only
18	Earth work excavation by manual means for drains,canals, waste weir, draft, approach channels, key trenches, foundation of bridges and such simillar works in all kinds of soils , as per drawing and technical specifications, including setting out, shoring, strutting, barricading, caution lights, removal of stumps and other deleterious matter, excavated surface leveled and sides neatly dressed disposing off the excavated stuff or sorting & stacking the selected stuff for reuse in a radius of 50 m and lift upto 1.5 m including cost of labour, tools & other appurtenaces required to complete the work.Loading and Unloading of Stone Boulder/Stone aggregates/ Sand/Kankar/Moorum.	Cum	84.38	169.82	One Hundred SixtyNine Paise EightyTwo Only
			208.31	169.82	One Hundred SixtyNine Paise EightyTwo Only
19	Supplying and filling in plinth with sand under floors, foundation of Bridges including watering, ramming, consolidating and dressing complete.	Cum	Item Not Executed		

Sr	Description	Unit	Approved Qty	Rate quoted by the contractor approved rates Sri Rajesh A (R R ENGINEERING WORKS	
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20	Supplying PVC ringtite pipes conforming to IS 4985:2000 with latest amendments and conveying to worksite, rolling and lowering into trenches, laying true to line and level and perfect linking at joints, testing and commissioning, including loading unloading at both destinations and cuts of pipes wherever necessary including jointing of PVC pipes and specials (excluding cost of specials) with jointing of approved type, with all labour with all lead & lift including encasing the pipe alround to a depth of not less than 15 cms. with soft gravel or selected earth available from the excavation etc. complete and giving necessary hydraulic test to the required pressure as per ISS (Contractor will make his own arrangements for procuring water for testing) etc.63mm outer dia 6kg/sqcm	Mtrs	250.00	126.99	One Hundred TwentySix Paise NinetyNine Only
			292.00	126.99	One Hundred TwentySix Paise NinetyNine Only
21	Refilling available earth around trenches/pipelines, cables in layers not exceeding 20 cms in depth, compacting each deposited layer by ramming after watering with a lead upto 50 m , and lift upto 1.5 m. Including cost of all labour complete as per specifications	Cum	56.25	111.39	One Hundred Eleven Paise Thirty Nine Only
			236.43	113.46	One Hundred Thirteen Paise FourtySix Only
22	Supplying fully automatic star-delta starter unit push buttontype with suitable wires, 3 contactors, one adjustablethermal timer mounted on a common base plate held in steel enclosure for use on 400/440 V 3 phase and wired after fixingto the existing wooden board for motor. Above 12.5 HP upto 25 HP	Each	1.00	7171.20	Seven Thousand One Hundred Seventy One Paise Twenty Only
	EIRL				
1	Supply and delivery at site wrought middle steel (galvanized) 50 mm dia GI Union confirming to IS 1239-II, 1991 with latest amendents if any (PWD Sr 2021-22 Vol-V page No 145, Item 13.60	Each	1.00	203.67	Two Hundred Three Paise SixtySeven Only
2	Supply and delivery at site wrought middle steel (galvanized) 50 mm dia GI hexagonal nippal confirming to IS 1239-II, 1991 with latest amendents if any (PWD Sr 2021-22 Vol-V page No 146, Item 15.60	Each	1.00	162.75	One Hundred SixtyTwo Paise SeventyFive Only
3	Supply and delivery at site wrought middle steel (galvanized) 50 mm dia GI Elbow confirming to IS 1239-II, 1991 with latest amendents if any (PWD Sr 2021-22 Vol-V page No 144, Item 7.60	Each	3.00	203.67	Two Hundred Three Paise SixtySeven Only
4	Supply and delivery at site of brand new best make gate value as per IS 778/1984 with ISI Mark and as per its lates amendments size 50 mm (PWD SR 2021-22 vol -V page No 162, item no 27.10	Each	23.00	1162.50	One Thousand One Hundred SixtyTwo Paise Fifty Only
5	Supply and delivery at site of brand new best make Non return value as per IS 778/1984 with ISI Mark and as per its lates amendments size 50 mm (PWD SR 2021-22 vol -V page No 162, item no 28.1	Each	4.00	1185.75	One Thousand One Hundred EightyFive Paise SeventyFive Only

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6	Supplying of 1.1KV LTUG cable XPLE or heat resistant PVC insulated PVC eatruded inner sheath armoured UGLT cable as per IS - 1554 (part-1) or IS 7098 part -I Amouring strip thickness in average +5% and resistivity 14 ohms / kms (max) as per IS - 3975 4 core 16 sqmm (Ele SR 2019-20 P-No 40 I/No 6.4.4)	Rmtr	50.00	124.50	One Hundred TwentyFour Paise Fifty Only
7	Labour charges for laying of 1.1KV class UG cable in existing trench GI pipe / stone pipe/ on wall / on pole as required 6 sqmm to 16sqmm (Ele SR of 2019-20 P No 4 I/No 6.5.1)	Rmtr	50.00	9.86	Nine Paise EightySix Only
8	Digging of trench of 0.6m deep x 0.50mtr wide refilling the trench to the required ground level and consolidating etc complete cutting road surfaces (P No 41, I No 6.6.3 KPWD Electrical SR 19.20)	Mtrs	50.00	68.06	SixtyEight Paise Six Only
9	Labour charges for Erection Electrification and commissioning of pump sets, including aligning and balanceing of all items including supply and erection of two pair of supporting clamps, bore well caps, cable clips and water tight gland cable protectors bolts, nuts valve and gauge, tools and equipments etc involued in the job as per specifications with necessary tests as per specifications with testing of as per instructions of engineer incharge of work (PWD SR 2021-22 vol - V - Page No 163 item no 38.)	Job	6.00	5719.50	Five Thousand Seven Hundred Nineteen Paise Fifty Only

Signature of the Contractor

Executive Engineer,
Yelahanka Division,